

What is claimed is:

1. A device for feeding shredder dust to a reverberatory furnace in which shredder dust is fed to a reverberatory furnace for non-ferrous smelting and is burned, wherein a feeding chute that passes to the inside of the reverberatory furnace is fitted to a ceiling of the reverberatory furnace and shredder dust can be fed from the feeding pipe, and wherein oxygen enriched air can also be supplied to the feeding nozzle and fed to the inside of the reverberatory furnace.
2. A device for feeding shredder dust according to claim 1, wherein the feeding chute is branched partway along its length and the shredder dust is fed from one end of the branched pipe while the oxygen enriched air is supplied in from the other end of the branched pipe.
3. A device for feeding shredder dust according to claim 1, wherein an air supply nozzle that has a smaller diameter than the feeding chute is inserted in the other end of the branched feeding chute and the distal end of the air supply nozzle is positioned adjacent to the branched portion of the feeding chute and the oxygen enriched air is supplied in from the air supply nozzle.
4. A reverberatory furnace for non-ferrous smelting provided with the shredder dust feeding facilities, wherein a burner is able to be installed in a wall portion of one end side of the reverberatory furnace and a plurality of feeding ports to which are connected the feeding chutes of the shredder dust feeding facilities are provided at the one end side in a ceiling portion forming a plurality of staggered rows facing the other end side.
5. A reverberatory furnace according to claim 4, wherein in the ceiling portion, the one end side where the feeding ports are provided is raised above the other end side.
6. A reverberatory furnace according to claim 4, wherein a feed chute of the feed facilities is connected to each one of the plurality of feeding ports and the positions at

which shredder dust is fed to the feeding hoppers are arranged in a single row.

7. A furnace for burning shredder dust, comprising:

a furnace body;

a burner which is provided on the wall on one side of said furnace body and emits a flame to the interior of said furnace body;

one or a plurality of a raw material feeding openings which is provided on the side of the ceiling on said one side for feeding the raw material to be smelted to the interior of said furnace body;

one or a plurality of a fuel and oxidizing gas feeding openings which is provided at the center of the ceiling on said one side;

a main feeding chute which is installed in said fuel and oxidizing gas feeding opening;

a first feeding chute installed inside said main feeding chute that feeds a compressed oxidizing gas to said furnace body; and

a dust feeding chute that is connected to said main feeding chute and feeds shredder dust in the interior of said furnace body via said fuel and oxidizing gas feeding opening;

wherein a second feeding chute that feeds compressed oxidizing gas into said main feeding chute is installed vertically as a combustion device for said shredder dust; and

said second feeding chute is installed such that the distal end thereof blows oxidizing gas to the shredder dust falling into the interior of said furnace body.

8. A furnace according to claim 7, wherein the second feeding chute is hung so as to be movable up and down by a hanging member.

9. A furnace according to claim 7, further comprising a third feeding chute that is provided on one side of the furnace body and feeds compressed oxidizing gas so as to blow on the shredder dust falling into the interior of said furnace body.

10. A furnace according to claim 7, wherein the second feeding chute comprises a chute body formed by iron or stainless steel and a refractory material that covers the periphery of

2025-03-20 14:00:00

said chute body.

11. A furnace according to claim 9, wherein at least one of the second feeding chute and the third feeding chute comprises a chute body formed by iron or stainless steel and a refractory material that covers the periphery of said chute body.

12. A furnace according to claim 7 wherein said furnace body is a melting furnace, a flash furnace, a fusion furnace, a slag cleaning furnace, a fluidized hearth furnace, a shaft furnace, a rotary kiln furnace, or a stoker furnace.

1075453 024403
2012022515001